

12th Grade Assignment – Week #7

Group Assignments:

For Tuesday

- Do the following problems in the given order. See how far you can get!
 - Do **Discovery Sheet #6**, problems #1 and #2. Only spend a maximum of 20 minutes on this!
 - Do **Discovery Sheet #7**, problem #1a and #1b. But first, make sure everyone understands the *Definition of the Derivative* (located above problem #1a).
 - If you still have time, try this problem:
Use the definition of the derivative to find the derivative, $f'(x)$, of $f(x) = 3x^5$

For Thursday

- Do the following problems in the given order. See how far you can get!
 - Use the definition of the derivative to find the derivative, $f'(x)$, of $f(x) = 7x^2$
 - Do **Discovery Sheet #7**, problems #2 and #3.
This is a shortcut for finding the derivative of any polynomial function.
 - Do **Discovery Sheet #6**, problem #4.
 - Do **Discovery Sheet #6**, problems #3a and #3b. Problem #3c is optional.

Individual Work

- As much as you can, complete any of the group assignment that your group didn't finish.
- Create a "summary page" for the week.